FIG. 1

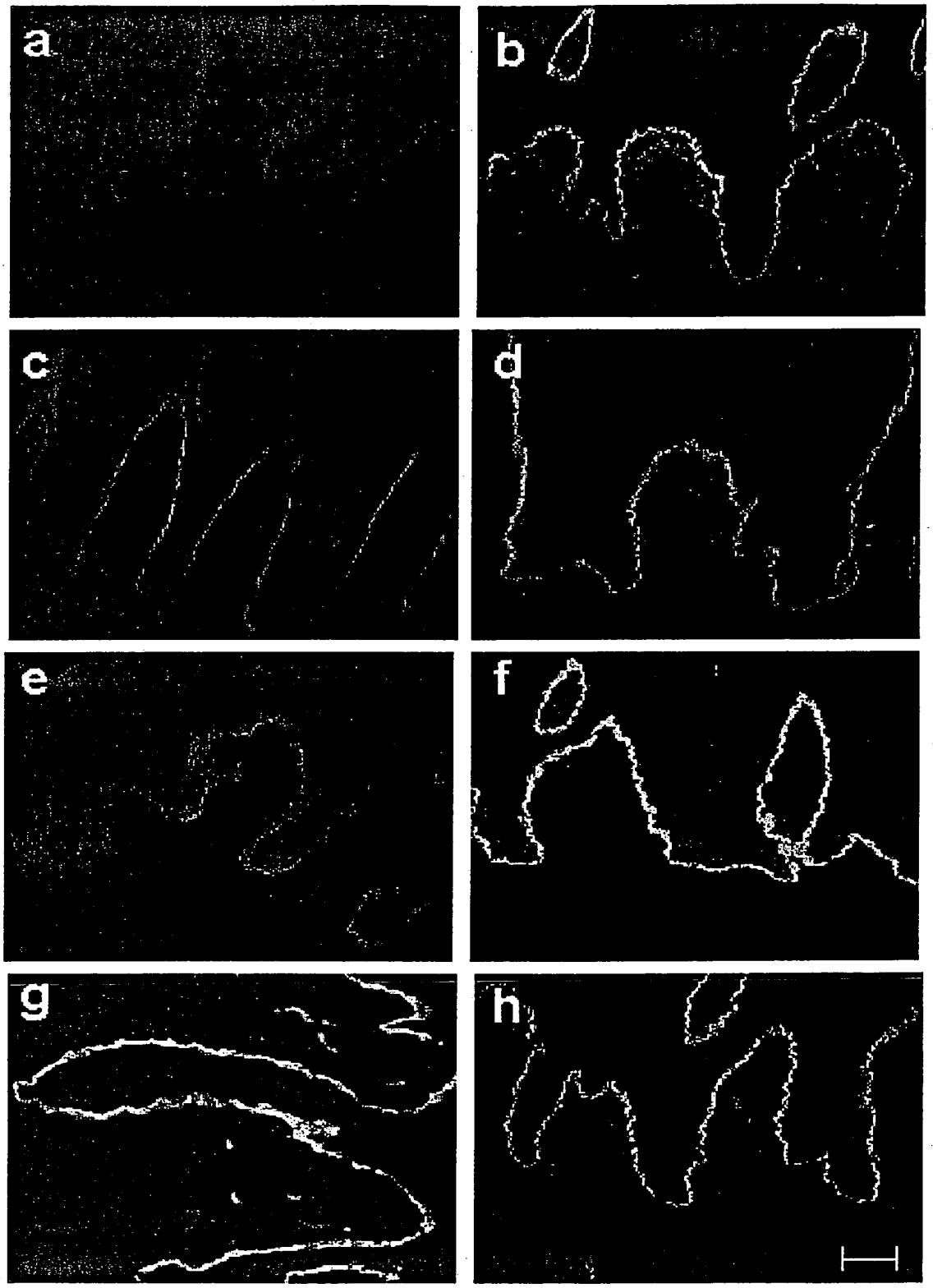

FIG. 2

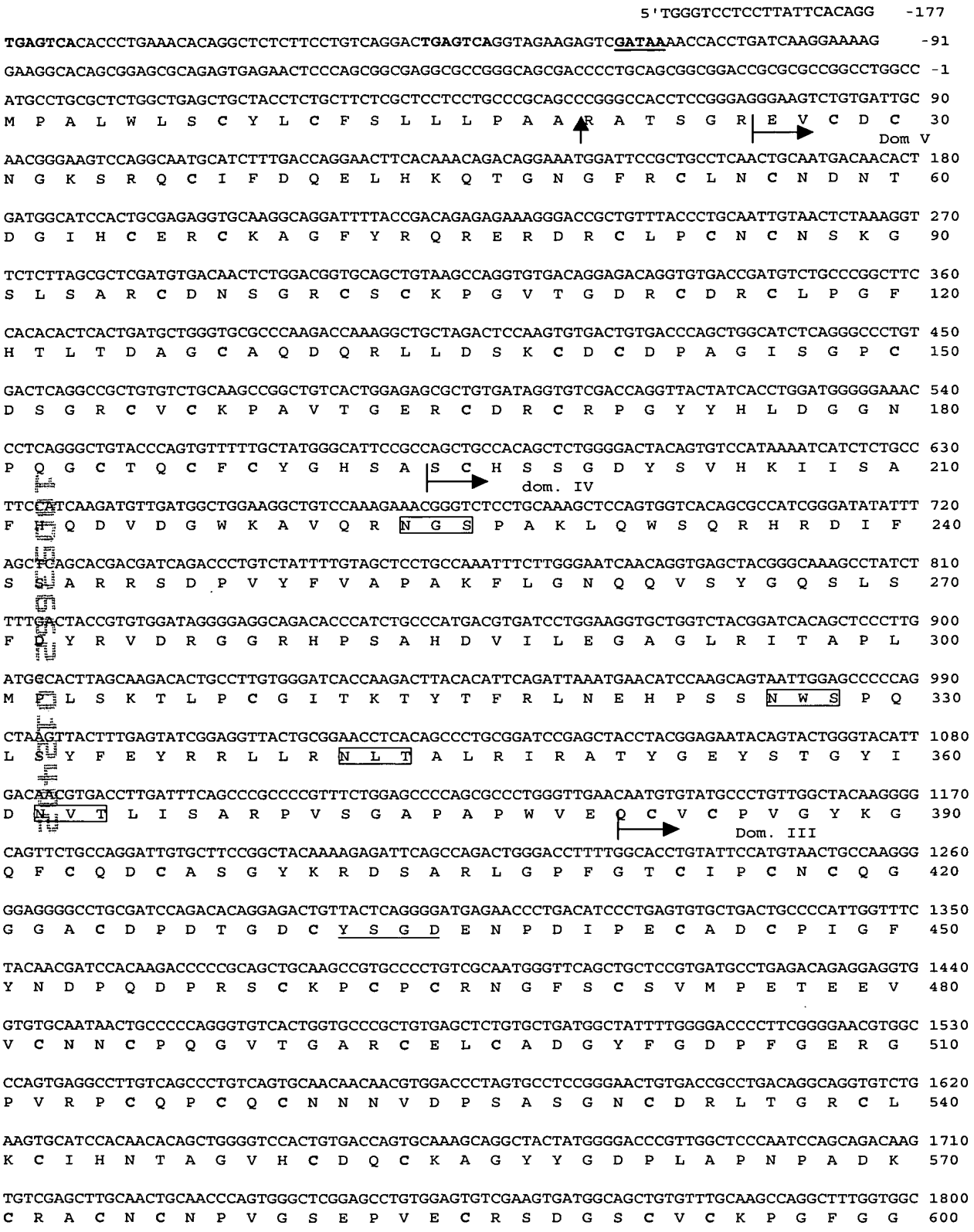
5'TGGGTCCTCCTTATTCACAGG -177
TGAGTCACACCCTGAAACACAGGCTCTCTTCCTGTCAGGACTGAGTCAGGTAGAAGAGTCGATAAAACCACCTGATCAAGGAAAAG -91
GAAGGCACAGCGGAGCGCAGAGTGAGAACTCCCAGCGGCGAGGCGCCGGGCAGCGACCCCTGCAGCGGCGGACCGCGCGCCGGCCTGGCC -1
ATGCCTGCGCTCTGGCTGAGCTGCTACCTCTGCTTCTCGCTCCTCCTGCCCGCAGCCCGGGCCACCTCCGGGAGGGAAGTCTGTGATTGC 90
M P A L W L S C Y L C F S L L L P A A R A T S G R E V C D C 30
Dom V
AACGGGAAGTCCAGGCAATGCATCTTTGACCAGGAACTTCACAAACAGACAGGAAATGGATTCCGCTGCCTCAACTGCAATGACAACACT 180
N G K S R Q C I F D Q E L H K Q T G N G F R C L N C N D N T 60
GATGGCATCCACTGCGAGAGGTGCAAGGCAGGATTTTACCGACAGAGAGAAAGGGACCGCTGTTTACCCTGCAATTGTAACTCTAAAGGT 270
D G I H C E R C K A G F Y R Q R E R D R C L P C N C N S K G 90
TCTCTTAGCGCTCGATGTGACAACTCTGGACGGTGCAGCTGTAAGCCAGGTGTGACAGGAGACAGGTGTGACCGATGTCTGCCCGGCTTC 360
S L S A R C D N S G R C S C K P G V T G D R C D R C L P G F 120
CACACACTCACTGATGCTGGGTGCGCCCAAGACCAAAGGCTGCTAGACTCCAAGTGTGACTGTGACCCAGCTGGCATCTCAGGGCCCTGT 450
H T L T D A G C A Q D Q R L L D S K C D C D P A G I S G P C 150
GACTCAGGCCGCTGTGTCTGCAAGCCGGCTGTCACTGGAGAGCGCTGTGATAGGTGTCGACCAGGTTACTATCACCTGGATGGGGGAAAC 540
D S G R C V C K P A V T G E R C D R C R P G Y Y H L D G G N 180
CCTCAGGGCTGTACCCAGTGTTTTTGCTATGGGCATTCCGCCAGCTGCCACAGCTCTGGGGACTACAGTGTCCATAAAATCATCTCTGCC 630
P Q G C T Q C F C Y G H S A S C H S S G D Y S V H K I I S A 210
dom. IV
TTCCATCAAGATGTTGATGGCTGGAAGGCTGTCCAAAGAAACGGGTCTCCTGCAAAGCTCCAGTGGTCACAGCGCCATCGGGATATATTT 720
F H Q D V D G W K A V Q R N G S P A K L Q W S Q R H R D I F 240
AGCTCAGCACGACGATCAGACCCTGTCTATTTTGTAGCTCCTGCCAAATTTCTTGGGAATCAACAGGTGAGCTACGGGCAAAGCCTATCT 810
S S A R R S D P V Y F V A P A K F L G N Q Q V S Y G Q S L S 270
TTTGACTACCGTGTGGATAGGGGAGGCAGACACCCATCTGCCCATGACGTGATCCTGGAAGGTGCTGGTCTACGGATCACAGCTCCCTTG 900
F D Y R V D R G G R H P S A H D V I L E G A G L R I T A P L 300
ATGCCACTTAGCAAGACACTGCCTTGTGGGATCACCAAGACTTACACATTCAGATTAAATGAACATCCAAGCAGTAATTGGAGCCCCCAG 990
M P L S K T L P C G I T K T Y T F R L N E H P S S N W S P Q 330
CTAAGTTACTTTGAGTATCGGAGGTTACTGCGGAACCTCACAGCCCTGCGGATCCGAGCTACCTACGGAGAATACAGTACTGGGTACATT 1080
L S Y F E Y R R L L R N L T A L R I R A T Y G E Y S T G Y I 360
GACAACGTGACCTTGATTTCAGCCCGCCCCGTTTCTGGAGCCCCAGCGCCCTGGGTTGAACAATGTGTATGCCCTGTTGGCTACAAGGGG 1170
D N V T L I S A R P V S G A P A P W V E Q C V C P V G Y K G 390
Dom. III
CAGTTCTGCCAGGATTGTGCTTCCGGCTACAAAAGAGATTCAGCCAGACTGGGACCTTTTGGCACCTGTATTCCATGTAACTGCCAAGGG 1260
Q F C Q D C A S G Y K R D S A R L G P F G T C I P C N C Q G 420
GGAGGGGCCTGCGATCCAGACACAGGAGACTGTTACTCAGGGGATGAGAACCCTGACATCCCTGAGTGTGCTGACTGCCCCATTGGTTTC 1350
G G A C D P D T G D C Y S G D E N P D I P E C A D C P I G F 450
TACAACGATCCACAAGACCCCCGCAGCTGCAAGCCGTGCCCCTGTCGCAATGGGTTCAGCTGCTCCGTGATGCCTGAGACAGAGGAGGTG 1440
Y N D P Q D P R S C K P C P C R N G F S C S V M P E T E E V 480
GTGTGCAATAACTGCCCCCAGGGTGTCACTGGTGCCCGCTGTGAGCTCTGTGCTGATGGCTATTTTGGGGACCCCTTCGGGGAACGTGGC 1530
V C N N C P Q G V T G A R C E L C A D G Y F G D P F G E R G 510
CCAGTGAGGCCTTGTCAGCCCTGTCAGTGCAACAACAACGTGGACCCTAGTGCCTCCGGGAACTGTGACCGCCTGACAGGCAGGTGTCTG 1620
P V R P C Q P C Q C N N N V D P S A S G N C D R L T G R C L 540
AAGTGCATCCACAACACAGCTGGGGTCCACTGTGACCAGTGCAAAGCAGGCTACTATGGGGACCCGTTGGCTCCCAATCCAGCAGACAAG 1710
K C I H N T A G V H C D Q C K A G Y Y G D P L A P N P A D K 570
TGTCGAGCTTGCAACTGCAACCCAGTGGGCTCGGAGCCTGTGGAGTGTCGAAGTGATGGCAGCTGTGTTTGCAAGCCAGGCTTTGGTGGC 1800
C R A C N C N P V G S E P V E C R S D G S C V C K P G F G G 600

FIG. 3

```
CTCAGCTGTGAGCATGCGGCACTGACCAGCTGTCCAGCTTGCTATAATCAAGTGAAGGTTCAGATGGATCAGTTTATGCAGCAGCTCCAG 1890
L  S  C  E  H  A  A  L  T  S  C  P  A  C  Y  N  Q  V  K  V  Q  M  D  Q  F  M  Q  Q  L  Q   630
                     └──▷ Dom. I/II

ATCCTGGAGGCCCTGATTTCGAAGGCTCAGGGTGGAGCAGTACCCAACGCAGAGCTGGAAGGCAGGATGCAGCAGGCTGAGCAGGCCCTT 1980
I  L  E  A  L  I  S  K  A  Q  G  G  A  V  P  N  A  E  L  E  G  R  M  Q  Q  A  E  Q  A  L   660

CGGGACATTCTGAGAGAAGCCCAGATTTCACAAGATGCTGTTAGATCCTTCAATCTCCGGGTGGCCAAGGCAAGGACTCAAGAGAATAGC 2070
R  D  I  L  R  E  A  Q  I  S  Q  D  A  V  R  S  F  N  L  R  V  A  K  A  R  T  Q  E  N  S   690

TACCGGGACCGCCTGGATGACCTCAAGATGACTGTGGAAAGAGTTCGGGCCCTGGGCAGTCAGTATCAGAACCAAGTTCAGGATACTCGC 2160
Y  R  D  R  L  D  D  L  K  M  T  V  E  R  V  R  A  L  G  S  Q  Y  Q  N  Q  V  Q  D  T  R   730

AGGCTCATCACTCAGATGCGCCTGAGCCTGGAGGAAAGTGAGGCTTCCCTGCAAAACACCAACATTCCTCCTTCAGAGCACTACGTGGGG 2250
R  L  I  T  Q  M  R  L  S  L  E  E  S  E  A  S  L  Q  N  T  N  I  P  P  S  E  H  Y  V  G   750

CCAAATGGCTTTAAAAGTCTGGCTCAGGAGGCCACGAGATTGGCAGACAGCCATGTTCAGTCAGCCAGTAACATGGAGCAACTGGCAAAG 2340
P  N  G  F  K  S  L  A  Q  E  A  T  R  L  A  D  S  H  V  Q  S  A  S  N  M  E  Q  L  A  K   780

GAAACCCAGGAGTATTCCAAAGAGCTGATGTCACTGGTGCGCGAGGCTCTGCAGGAAGGAGGCGGAAGCGGCAGCCTGGACGGAGCCGTG 2430
E  T  Q  E  Y  S  K  E  L  M  S  L  V  R  E  A  L  Q  E  G  G  G  S  G  S  L  D  G  A  V   810

GTGCAAAGGCTTGTGGGAAAATTGCAGAAAACTAAATCTCTGGCCCAGGAGTTGTCGAGGGAGGCCACGCAAACCGACATGGAAGCAGAT 2520
V  Q  R  L  V  G  K  L  Q  K  T  K  S  L  A  Q  E  L  S  R  E  A  T  Q  T  D  M  E  A  D   840

AGGTCTTATCAGCATAGTCTCCACCTTCTCAATTCCGTGTCTCAGATTCAGGGAGTCAATGATCAGTCCTTGCAGGTAGAAGCGAAGAGG 2610
R  S  Y  Q  H  S  L  H  L  L  N  S  V  S  Q  I  Q  G  V  N  D  Q  S  L  Q  V  E  A  K  R   870

CTCAGACAAAAAGCTGATTCTCTCTCAAACCGTGTGACTAAGCATATGGATGAGTTCAAGCACGTGCAAAGCAATCTGGGAAACTGGGAA 2700
L  K  Q  K  A  D  S  L  S  N  R  V  T  K  H  M  D  E  F  K  H  V  Q  S  N  L  G  N  W  E   900

GAAGAAACCCGGCAGCTCTTACAGAATGGAAAGAATGGGAGACAGACATCAGATCAGCTGCTTTCCCGTGCCAACCTTGCTAAAAGCAGA 2790
E  E  T  R  Q  L  L  Q  N  G  K  N  G  R  Q  T  S  D  Q  L  L  S  R  A  N  L  A  K  S  R   930

GCCCAAGAAGCACTAAGTATGGGCAATGCCACTTTTTATGAAGTTGAGAACATCTTAAAGAATCTCAGAGAGTTTGACCTGCAGGTTGGA 2880
A  Q  E  A  L  S  M  G  N  A  T  F  Y  E  V  E  N  I  L  K  N  L  R  E  F  D  L  Q  V  G   960

GATAAAAAGAGCAGAAGCTGAAGAGGCCATGAAGAGACTCTCCTACATCAGCCAGAAGGTTGCAGGTGCCAGTGACAAGACGAAGCAAGCA 2970
D  K  R  A  E  A  E  E  A  M  K  R  L  S  Y  I  S  Q  K  V  A  G  A  S  D  K  T  K  Q  A   990

GAAGCAGCCCTGGGCAGTGCTGCTGCCGACGCCCAGAGGGCAAAGAATGCAGCCAGGGAGGCCCTGGAGATCTCTGGCAAGATAGAACAG 3060
E  A  A  L  G  S  A  A  A  D  A  Q  R  A  K  N  A  A  R  E  A  L  E  I  S  G  K  I  E  Q  1020

GAGATAGGAGGTCTGAACTTGGAAGCCAATGTGACAGCAGATGGAGCCTTGGCCATGGAGAAGGGACTGGCCACTCTGAAAAGTGAGATG 3150
E  I  G  G  L  N  L  E  A  N  V  T  A  D  G  A  L  A  M  E  K  G  L  A  T  L  K  S  E  M  1050

AGAGAAGTGGAAGGAGAGCTGTCAAGGAAGGAGCAGGAGTTTGACATGGATATGGACGCAGTGCAGATGGTAATTGCAGAGGCCCAAAGA 3240
R  E  V  E  G  E  L  S  R  K  E  Q  E  F  D  M  D  M  D  A  V  Q  M  V  I  A  E  A  Q  R  1080

GTTGAAAACAGAGCCAAGAATGCTGGAGTTACGATCCAAGACACACTCAACACATTGGATGGCATCCTACACCTAATAGACCAGCCTGGC 3330
V  E  N  R  A  K  N  A  G  V  T  I  Q  D  T  L  N  T  L  D  G  I  L  H  L  I  D  Q  P  G  1110

AGTGTGGATGAAGAGAGGCTGATCTTACTGGAGCAGAAGCTTTTCCGAGCCAAGACTCAGATCAACAGCCAGCTACGGCCCTTGATGTCA 3420
S  V  D  E  E  R  L  I  L  L  E  Q  K  L  F  R  A  K  T  Q  I  N  S  Q  L  R  P  L  M  S  1140

GAGCTGGAAGAGAGGGCACATCGGCAGAAGGGCCACCTCCGTTTCCTGGAGACTAGCATAGATGGGATTCTGGCTGATGTGAAGAACCTG 3510
E  L  E  E  R  A  H  R  Q  K  G  H  L  R  F  L  E  T  S  I  D  G  I  L  A  D  V  K  N  L  1170

GAGAACATCAGGGACAACCTGCCCCCGGGCTGCTACAATACCCAGGCTCTTGAGCAACAGtgaagctgccttagagatttctcaaccaag 3600
E  N  I  R  D  N  L  P  P  G  C  Y  N  T  Q  A  L  E  Q  Q  *                              1190
gttcttgggattcagacctagctgccttagagatttctcaaccaaggttcttgggattcagacctcagggctcaggagcccgcatgcggg 3690
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atgtctttattg                                                                               3789-3'
```

FIG. 3 cont'd

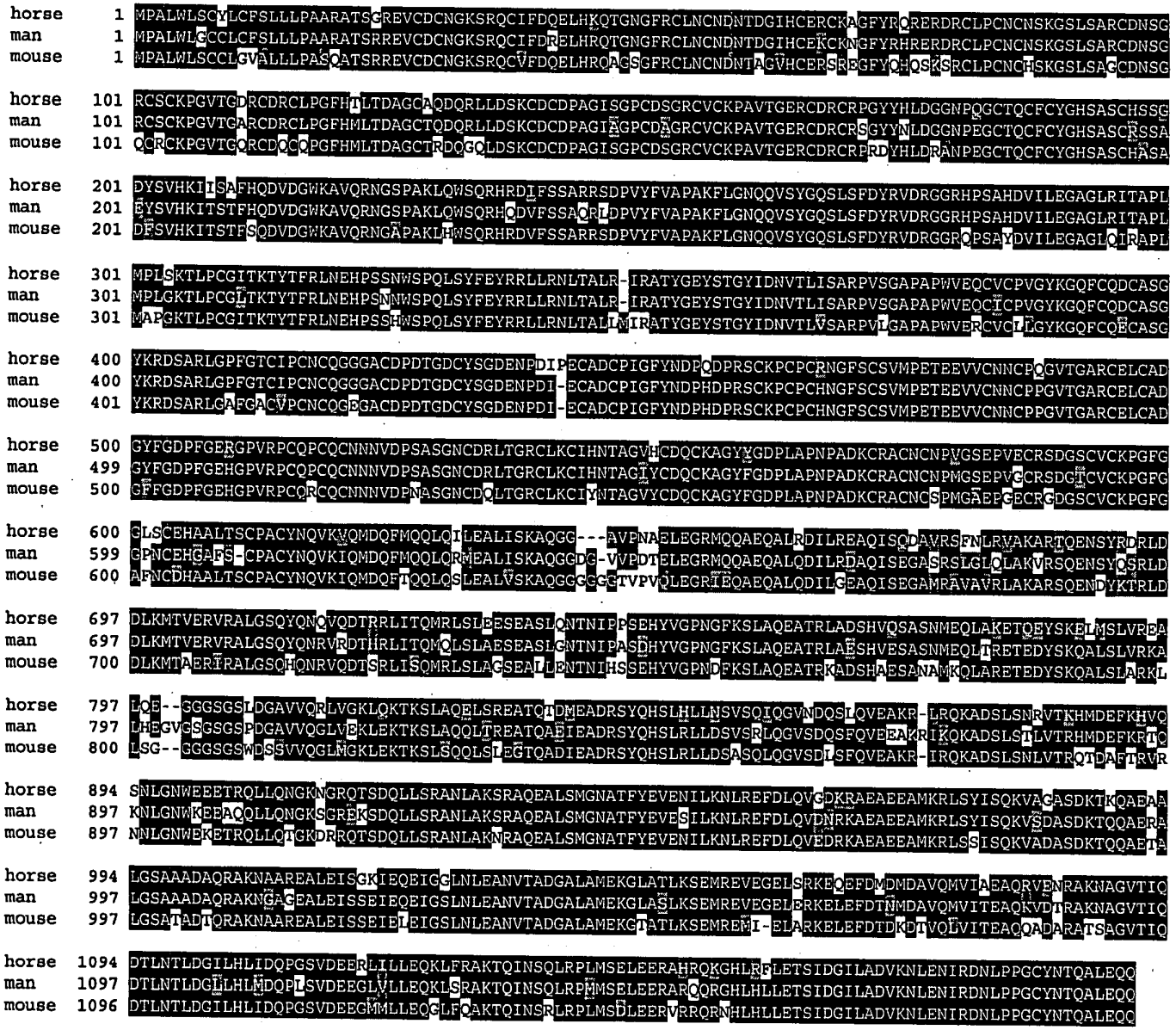

FIG. 4

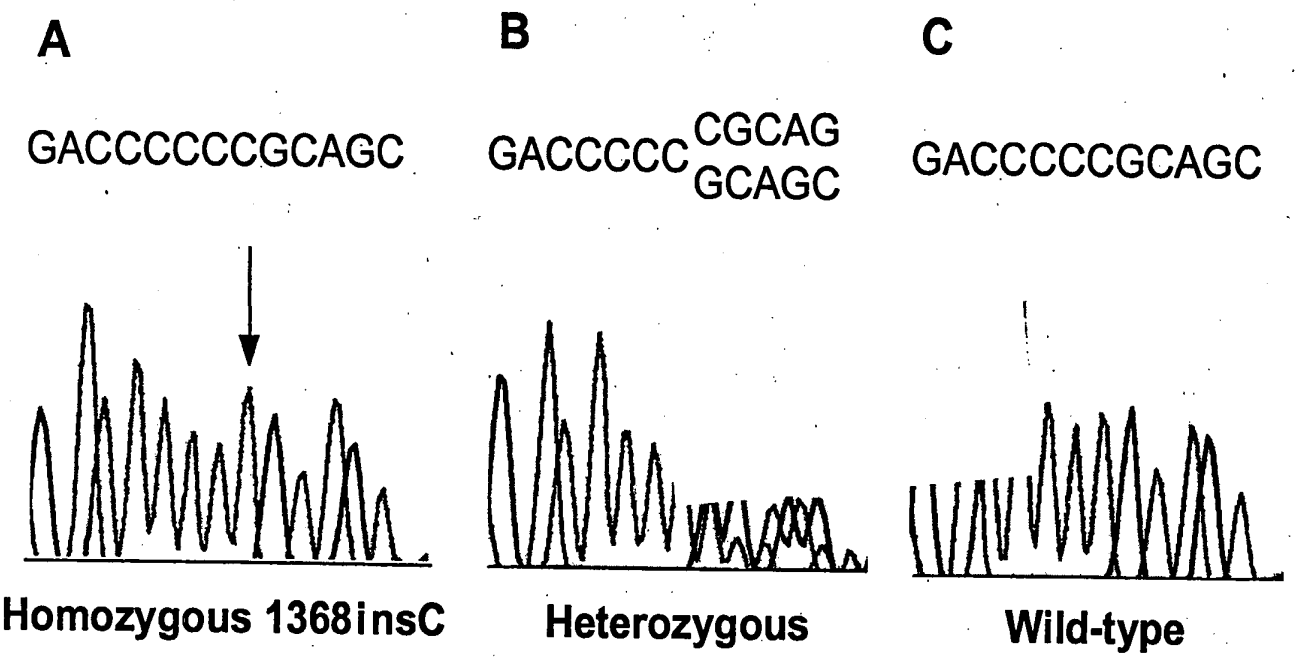

FIG. 5

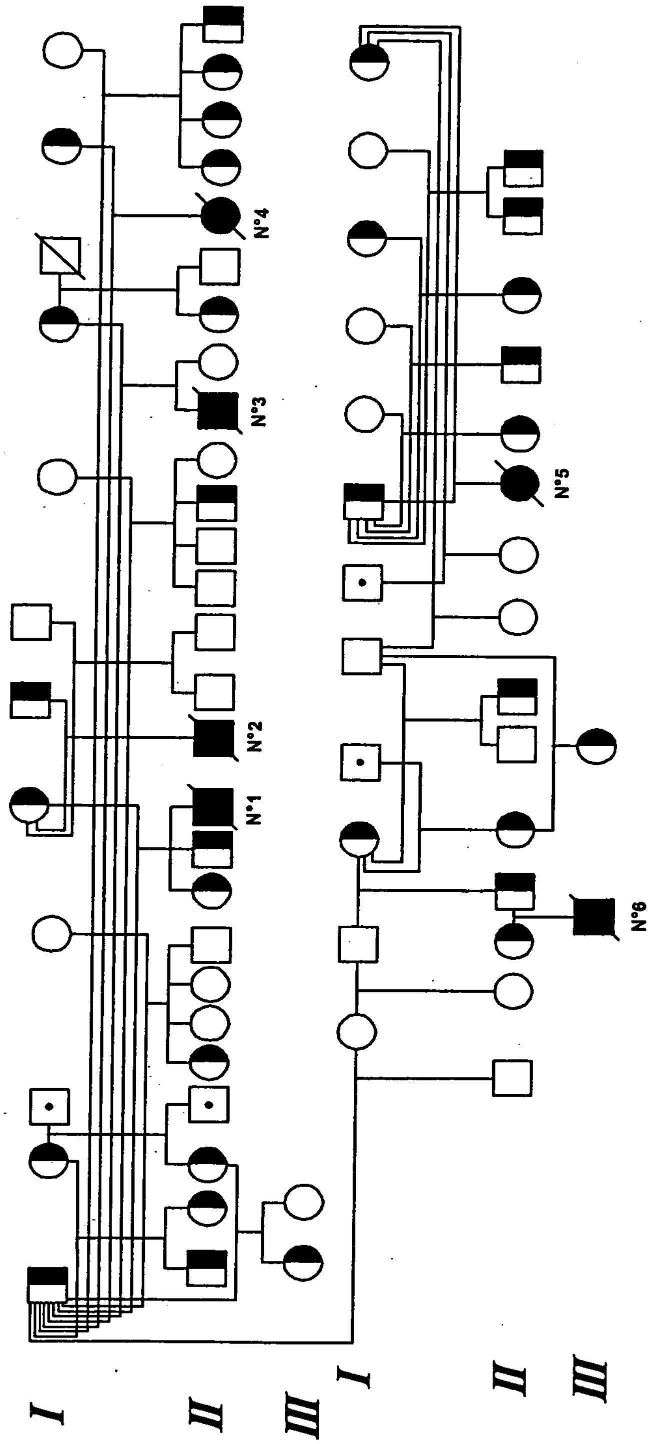

FIG. 6